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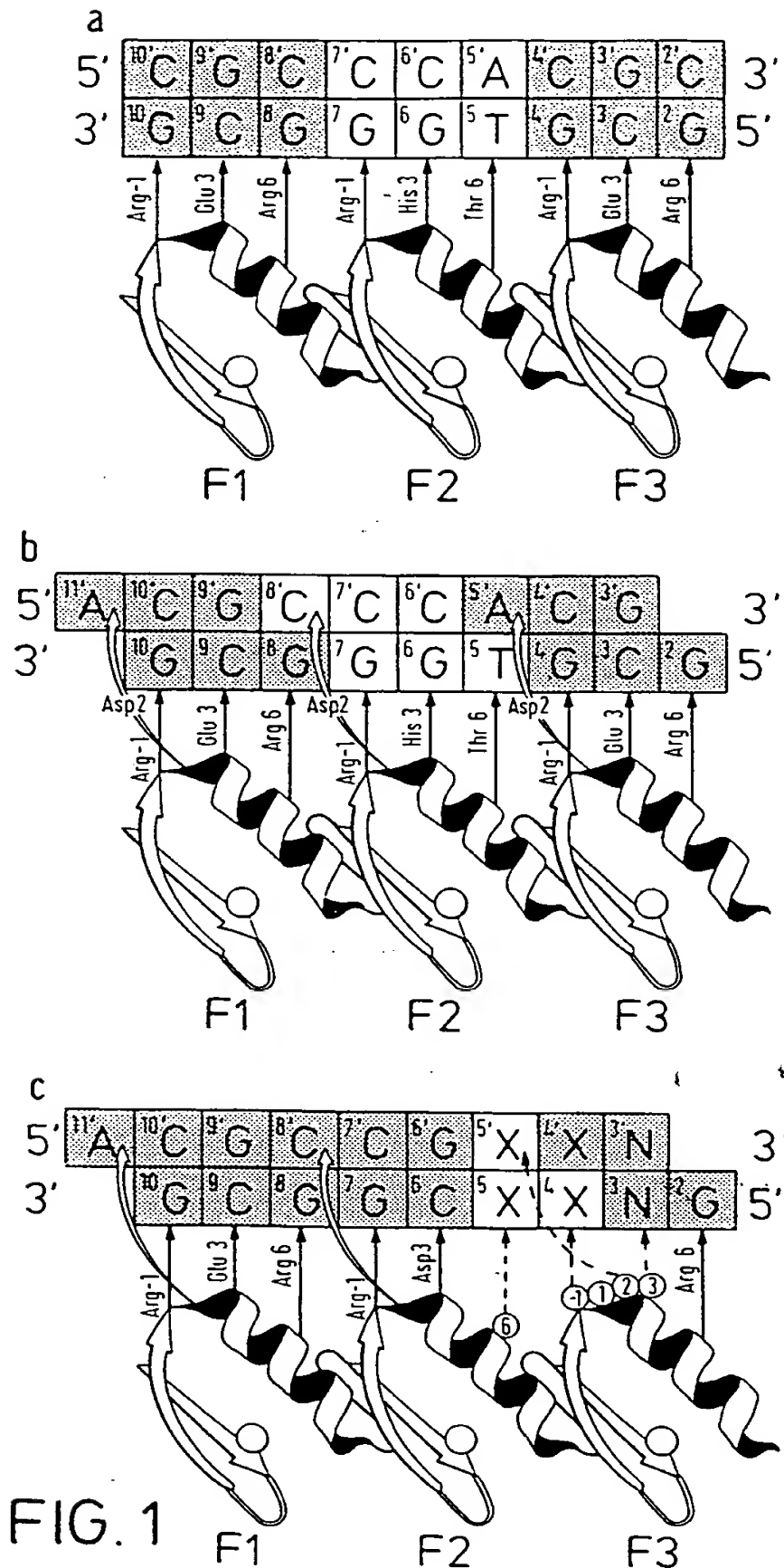


FIG. 1

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F1	M A E E R P Y A C P V E S C D R R F S R S D E L T R H I R I H	T G Q K P
F2	F Q C R I - - C M R N F S R S D D L T H I R T H	T G E K P
F3	F A C D I - - C G R K F A S D R K R H T K I H	L R Q K D

α - helix

3

3

FIG. 2

SECRET

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BASE AT POSITIONS 4X AND 5X OF DNA SITES USED IN SELECTIONS	AMINO ACIDS SELECTED IN FINGERS 2 AND 3	BINDING SITE SIGNATURE	No. OF CLONES SELECTED AND SCREENED	BASES AT POSITIONS 4X AND 5X OF DNA SITES USED IN SELECTIONS	AMINO ACIDS SELECTED IN FINGERS 2 AND 3	BINDING SITE SIGNATURE	No. OF CLONES SELECTED AND SCREENED
4X5X	F2 F3	4X 5X		4X5X	F2 F3	4X 5X	
GG	6 R RLEY * R RSED R RHTH R RSSE R RSSA	G A T C G A T C	4 4 1 1 1	CC	6 T DPHN E HSKS E HRON S DRAN T DRAN	G A T C G A T C	1 4 1 1 2
AG	R QVTT * R QSGD R QLAT R QDAH R QRAS K QSTS	A G	4 5 2 1 1 1	AC	* Y RSQD V QVGH T QLAT	A A	3 2 3
TG	R SSGD R SASA * R NSGD R LVQN K TGAS R TPSG R TQTA R TSAA	T G	1 1 1 1 1 1 1 2	TA	N TSQA N TSAS K LAQT * E RSRD E RLRO V HLAT V HLT L VGHH	T A	4 2 1 3 4 1 1
CG	R DTSV R DAST R DASA R DTSS	C G	3 2 1 2	CA	Y HPAT N HPAN E MHSN L DSRA	C A	2 1 9 2
GC	A RNHD * N RSTD * S RSTD S SRHS T RNST T RTST T TRY5 T RAQN	G C	2 3 6 1 1 1 3 1	GT	* T KSSD * K SSSD * K RSHD A RSSY T RSSS T RKTD	G T	2 1 1 1 1 1
AC	A QAAT A QGTN * V TSRD S QRG S QSTT A TSST T SSST	A C	4 1 4 1 2 1 1	AT	S QIST S QIGA T QYST T QSAS T QSQH T QTS T QPGH T QDTT K QDST	A T	3 1 1 1 1 1 1 2
TC	D TISN N TSTA V TSSL V TSSI V TSNS * R GSND A TTSS T TAGS S TTSS S TSSA S LSTT G LSST	T C	1 1 4 1 3 1 1 1 1 1 1 1	TT	T TAST T TASH T TSSV T TSSA S HHTS S HAQT S HATT	T T	1 1 1 1 1 1 4
				CT	K DHSS T HPST S DSSR	C T	5 1 1

RELATIVE SIGNATURE STRENGTH ■ ≤1.00 ■ 0.80 ■ 0.60 ■ 0.40 ■ 0.20 □ 0.00

FIG. 3

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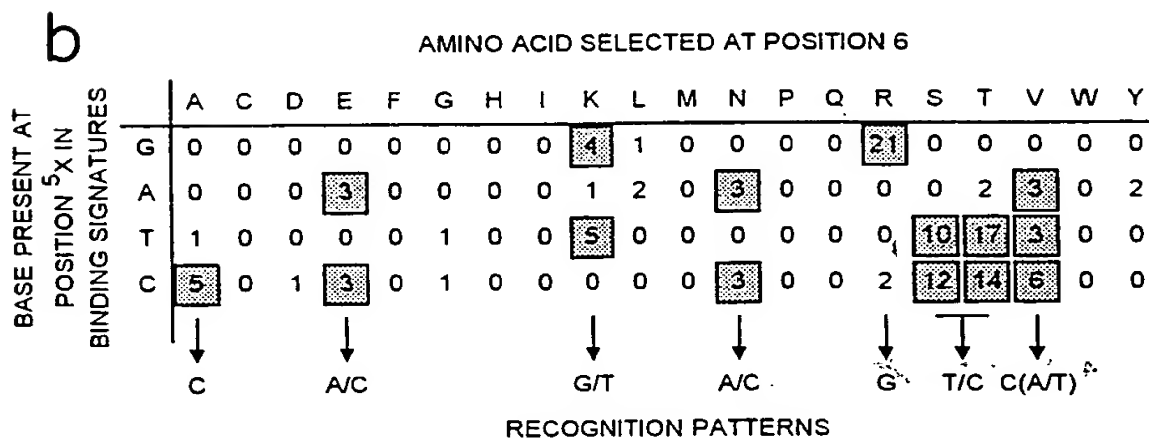
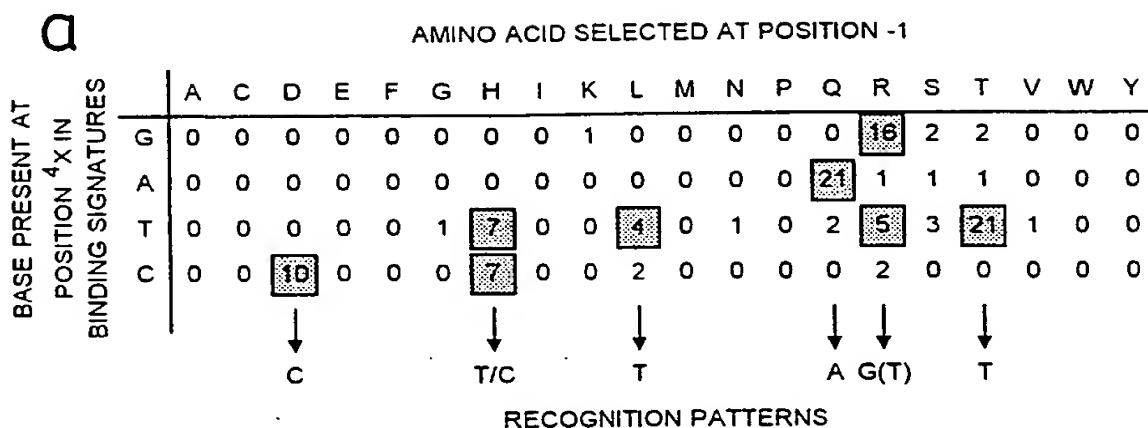
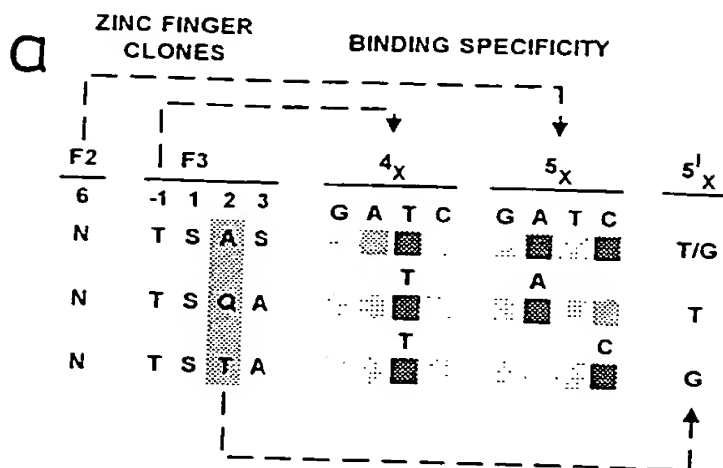


FIG. 4

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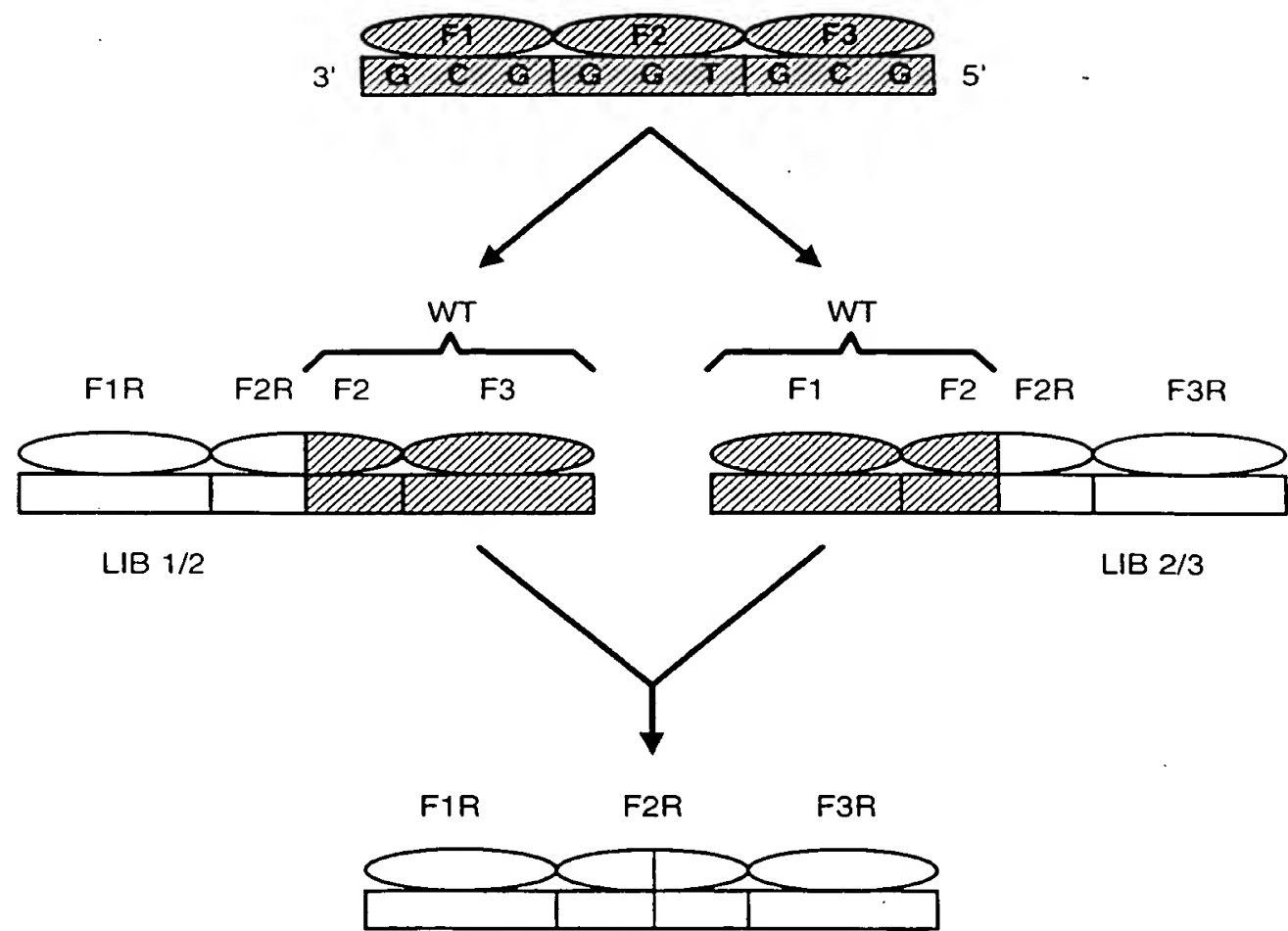
b

AMINO ACID SELECTED AT POSITION 2	F2	F3	CROSS-STRAND BINDING SPECIFICITY	No. OF CLONES SELECTED AND SCREENED
E	6	-1 1 2 3	G A T C	
R	R	R L E Y	■ ■ ■ ■	4
R	R	R S E D	■ ■ ■ ■	4
N	V	T S N S	■ ■ ■ ■	3
N	R	G S N D	■ ■ ■ ■	1
Q	Y	R S Q D	■ ■ ■ ■	3
N	N	T S Q A	■ ■ ■ ■	4
K	K	L A Q T	■ ■ ■ ■	1
T	T	R A Q N	■ ■ ■ ■	1
S	S	H R Q N	■ ■ ■ ■	1
S	S	H A Q T	■ ■ ■ ■	1
R	L	D S R A	■ ■ ■ ■	2
E	R	R S R D	■ ■ ■ ■	3
E	R	R L R D	■ ■ ■ ■	4
V	T	T S R D	■ ■ ■ ■	4
H	A	R N H D	■ ■ ■ ■	2
S	S	R R H S	■ ■ ■ ■	1
T	T	D P H N	■ ■ ■ ■	1
K	E	H S K S	■ ■ ■ ■	4

FIG. 5

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▨ = wild type Zif268 sequence
R = randomised

FIG.6